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L1 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN

Full Text

ACCESSION NUMBER: 1999:142110 CAPLUS

DOCUMENT NUMBER: 130:253422

TITLE: Inflation multilayer films using LLDPE prepared by using metallocene polymerization catalysts

INVENTOR(S): Hamata, Naoshi; Nishimura, Toshihiro; Inoue, Hiroshi

PATENT ASSIGNEE(S): Mitsui Chemicals Inc., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11058635	A2	19990302	JP 1997-215188	19970808
			JP 1997-215188	19970808

PRIORITY APPLN. INFO.:

AB Title films, suitable for packaging contents of 5-15 kg, e.g., rice, fertilizers, etc., consist of (A) inside layers contg. 100 parts LLDPE prepd. by using metallocene catalysts and having d. 0.920-0.935 g/cm³, melt flow rate (MFR; ASTM D 1238, 190°, 2.16 kg) 0.5-2.5 g/10 min and 0.1-1.0 part antistatic agents, (B) intermediate layers made of HDPE having d. 0.950-0.965 g/cm³, MFR 0.3-6.0 g/10 min, and (C) outside layers contg. 100 parts LLDPE prepd. by using metallocene polymn. catalysts and having d. 0.918-0.935 g/cm³, MFR 0.5-5.0 g/10 min and 0.01-0.3 part slip agents at t₁/t₀ = 0.3-2 and t₂/t₀ = 0.5-1.5 (t₀ = thickness of the inside layers; t₁ = total thickness of the intermediate layers; t₂ = thickness of the outside layers). Thus, LLDPE (d. 0.928 g/cm³, MFR 1.8 g/10 min; prepd. by using metallocene catalyst) contg. 0.2 phr stearyl monoglyceride (Electrostripper TS 5) as the inside layer, HDPE (d. 0.953 g/cm³, MFR 0.6 g/10 min) as the intermediate layer, and LLDPE (d. 0.930 g/cm³, MFR 1.0 g/10 min, prepd. by using metallocene catalyst) contg. 0.04 phr erucamide (Alflow 10) as the outside layer were inflation-molded to give title film showing dart impact strength 600 g, flexural modulus (MD; machine direction) 4500 kg/cm, and tear strength 120 and 250 kg/cm, for MD and

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transverse direction, resp.,.

L1 ANSWER 2 OF 2 WPIX COPYRIGHT 2006 THE THOMSON CORP on STN

Full Text

ACCESSION NUMBER: 1999-224395 [19] WPIX
 DOC. NO. NON-CPI: N1999-166769
 DOC. NO. CPI: C1999-065973
 TITLE: Inflation multilayer film - has inner polyethylene layer,
 at least one intermediate layer and outer layer.
 DERWENT CLASS: A17 A92 P73
 PATENT ASSIGNEE(S): (MITC) MITSUI PETROCHEM IND CO LTD
 COUNTRY COUNT: 1
 PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
JP 11058635	A	19990302	(199919)*		7

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APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
JP 11058635	A	JP 1997-215188	19970808

PRIORITY APPLN. INFO: JP 1997-215188 19970808

AN 1999-224395 [19] WPIX

AB JP 11058635 A UPAB: 19990813

Inflation multilayer film includes an inner layer, at least one intermediate layer, and an outer layer, where the inner layer is made of a composition (1) including 100 parts by weight of a metallocene-based straight-chain low density polyethylene A and 0.1 to 1.0 parts by weight of an antistatic agent B, the polyethylene A has a density of 0.920 to 0.935 g/cm³ and a melt flow rate of 0.5 to 2.5 g/10 min. (ASTM D 1238, 190 deg. C and load: 2.16 kg), the intermediate layer is made of a high density polyethylene C having a density of 0.950 to 0.965 g/cm³ and a melt flow rate of 0.3 to 6.0 g/10 min. (ASTM D 1238, 190 deg. C and load: 2.16 kg), the outer layer is made of a composition (2) composed of 100 parts by weight of a metallocene-based straight-chain low density polyethylene D and 0.01 to 0.3 parts by weight of a slip agent E, the polyethylene resin D has a density of 0.918 to 0.935 g/cm³ and a melt flow rate of 0.5 to 5.0 g/10 min. (ASTM D 1238, 190 deg. C and load: 2.16 kg), to/t1 is 0.3 to 2, and t2/to is the thickness of the inner layer, to, t1 and t2 are thicknesses of the inner layer, the entire intermediate layer and the outer layer, respectively.

USE - The inflation multilayer film is used for semi-heavy packing in polished rice and home vegetable fertilizer.

ADVANTAGE - The multi-layer film has high strength, rigidity and stiffness as well as high tear strength and dart impact strength.
 Dwg.0/0

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COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
9.25	9.46

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-0.75	-0.75

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